

ABSTRACT OF THE DISCLOSURE

A transmitter and a receiver share a maximum number of transmission bits per symbol as a parameter. The transmitter modulates an encoded and interleaved transmission signal in accordance with a modulation scheme which enables the transmission of one bit or more per symbol, while the receiver demodulates a received signal based on a channel quality in accordance with a modulation scheme which has a higher modulation level as the channel quality is higher. When the number of demodulated bits per symbol is smaller than the maximum number of transmission bits per symbol, the receiver deinterleaves and decodes a received signal after the demodulation on the assumption that the received signal has likelihoods of zero as much as the number of missing bits.